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Quarterly Progress Report

December 1973 - February 1974

Investigation Title: Utilization of EREP Data in Geological Evaluation,
Regional Planning, Forest Management, and Water
Management in North Carolina

EREP Investigation No.: 018

Contract No.: NAS9-13321

Principal Investigator: Charles W. Welby



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During the fourth quarter of the contract, partial delivery of SKYLAB-3 imagery from the Chowan River-Albemarle Sound test site was made as was partial delivery of the SKYLAB-3 imagery of the September 12 and 17, 1973, passes across the piedmont.

Preliminary evaluation of the original piedmont imagery shows potential usefulness in mapping land use patterns and in distinguishing various forested areas.

Contacts continue to be made with appropriate State and Regional Planning Agencies regarding problems which may possibly be solved by use of SKYLAB

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B imagery. It appears possible that S190B imagery can be used to update highway and road maps in rapidly urbanizing areas. Such data will be useful to planners in mapping roads in areas where roads have not yet been dedicated to municipalities or to a state agency.

Work began on geologic interpretation of SKYLAB imagery in the Asheville area in conjunction with a photogeology class, and additional work will be possible as the imagery received is put into a more suitable format for study.

SKYLAB imagery will be useful in studies of the inlets through the barrier islands. Because of the "one-shot" nature of the imagery it may only be possible to suggest ways the imagery could prove useful and to use the SKYLAB imagery as "groundtruth" for interpretation of ERTS-1 imagery. Successful melding of these two types of imagery could prove of considerable value in interpreting the coastal processes, particularly processes related to the behavior of the inlets.

It appears that a no-cost contract extension will be required from the present June 30, 1974, termination date to August 31, 1974.